

RECEIVED  
CENTRAL FAX CENTER

NOV 20 2006

AMENDMENTS TO THE CLAIMS

1. (currently amended) An integrated anastomosis tool for forming an opening in a target vessel and connecting a graft vessel to the target vessel, the device comprising:

a tool body including substantially hollow chamber and an introducer positioned at a distal end of the chamber and having a lumen open to the chamber, the introducer configured to substantially seal against the target vessel, whereby the chamber substantially maintains hemostasis;

a cutting device movably attached to the tool body and configured to form the opening in the target vessel; and

a graft vessel attachment device movably attached to the tool body and configured to connect the graft vessel to the target vessel;

wherein both the graft vessel attachment device and the cutting device are is movable substantially along a first direction and transverse to the first direction both longitudinally and transversely, and wherein the cutting device is movable to a position within the chamber after forming the opening in the target vessel.
2. (original) The integrated anastomosis tool of claim 1, wherein the introducer is splittable.
3. (currently amended) A device for forming an opening in a target vessel and delivering an implantable anastomosis device to connect a graft vessel to the target vessel, the device comprising:

a tool body having a lumen;

a cutting device configured to form the opening in the target vessel, the cutting device being movable at least partially within the lumen; and

a graft vessel attachment device movable at least partially within the lumen for

Best Available Copy

delivering the implantable anastomosis device to the target vessel to connect the graft vessel to the target vessel;

wherein ~~at least one member of the group consisting of the graft vessel attachment device and the cutting device is configured to move movable~~ away from the axial centerline of the lumen.

4. (original) The device of claim 3, wherein the cutting device includes a substantially circular cutting element.
5. (original) The device of claim 3, wherein the cutting device includes an auger.
6. (original) The device of claim 3, wherein both the graft vessel attachment device and the cutting device are contained within the tool body simultaneously.
7. (original) The device of claim 3, further comprising an introducer connected to the tool body, the introducer having a lumen substantially coaxial with the lumen of the tool body.
8. (currently amended) The device of claim 3, wherein the tool body includes an off-axis area defined therein; and wherein ~~at least one member of the group consisting of the graft vessel attachment device and the cutting device is configured to move away from the axial centerline of the lumen into the off-axis area.~~
9. (currently amended) An anastomosis tool for forming an opening in a target vessel and connecting a graft vessel to the target vessel, the device comprising:  
a tool body having an aperture at a distal end thereof;

a cutting device positioned at least partially in the tool body and having a distal end configured to form the opening in the target vessel, at least the distal end of the cutting device movable through the aperture; and  
a graft vessel attachment device positioned at least partially in the tool body and having a distal end configured to connect the graft vessel to the target vessel, at least the distal end of the graft vessel attachment device movable through the aperture;  
wherein the cutting device is movable substantially linearly along a first direction and the graft vessel attachment device is movable linearly along a second direction substantially non-parallel to the first direction, wherein both the first and second directions are angled relative to the longitudinal direction.

10-11. (canceled)

12. (currently amended) A device for forming an opening in a target vessel, delivering an implantable anastomosis device to the target vessel, and connecting a graft vessel to the target vessel, the device comprising:

a cutting device configured to form the opening in the target vessel; and  
a graft vessel attachment device configured to deliver and deploy the implantable anastomosis device to connect the graft vessel and the target vessel; and  
a single control operationally connected to both the cutting device and the graft vessel attachment device;

wherein the cutting device and the graft vessel attachment device are mechanically linked to sequentially pass the cutting device and the graft vessel attachment

device through a particular point in proximity to an anastomosis site in response to actuation of the single control.

13. (original) The device of claim 12, wherein the device is configured to form the opening without passing the cutting device or the graft vessel attachment device through a lumen of the graft vessel.

14. (currently amended) The device of claim 12, wherein the device ~~is delivered~~ delivers and ~~deploys~~ deploys the implantable anastomosis device without passing the cutting device or the graft vessel attachment device through a lumen of the graft vessel.

15-20. (canceled)

21. (new) The anastomosis tool of claim 9, further comprising a pivotable introducer connected to the distal end of the tool body, wherein the aperture is located in the introducer.

Best Available Copy